

NTHE ONITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CHEMICAL PR	OCESS								
the specification	of which (check one)								
[] is attacl	is attached hereto.								
[x] was filed on October 4, 2000 as United States Application									
Number	or PCT International Applica	tion No. 09/678,724							
and was	amended on((if applicable).						•	
I hereby including the cla	state that I have reviewed and ims, as amended by any amend	understand the contents of the ab	ove-idei	ntified	spec	ificat	ion,		
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	<u>Pri</u>	Prior Foreign Application(s)		Priority Not Claimed			ified Filed? NO		
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(Number)	(Country)	(Day/Month/Year filed)	(]	[]	[]	
(Number)	(Country)	(Day/Month/Year filed)	[]	[]	[]	
I hereby claim th	ne benefit under 35 U.S.C. §11	9(e) of any United States provision	nal appli	ication	(s) li	sted b	elow	' .	
60/157,783	<u> </u>	10/5/99							
(Application Nu	mber)	(Filing Date)							
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(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
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As a named inven Hamilton, Brook, Smith & Customer No. 21005,		s and/or agents associated with Orive, Lexington, Massachusetts 02421-4799
and		
to prosecute this applicatio	n and to transact all business in th	e Patent and Trademark Office connected therewith.
Please send correspon	dence to:	
[X] Customer No.		K, SMITH & REYNOLDS, P.C.
	Two Militia Drive	4700
or	Two Militia Drive Lexington, MA 02421	4799
or [] Address as follow	Lexington, MA 02421	4799
	Lexington, MA 02421	4799
[] Address as follow	Lexington, MA 02421-s:	
[] Address as follow Direct telephone of	s: calls to: Mary Lou Wakimura	Telephone No.: 781-861-6240
[] Address as follow Direct telephone of	Lexington, MA 02421-s:	
[] Address as follow Direct telephone of the control of the cont	Lexington, MA 02421- s: calls to: Mary Lou Wakimura to: Mary Lou Wakimura hat all statements made herein of are believed to be true; and furthers and the like so made are punishated States Code and that such wil	Telephone No.: 781-861-6240
Direct telephone of Direct facsimiles on information and belief a that willful false statements 1001 of Title 18 of the Uni	Lexington, MA 02421- s: calls to: Mary Lou Wakimura to: Mary Lou Wakimura hat all statements made herein of are believed to be true; and furthers and the like so made are punishated States Code and that such wil	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 my own knowledge are true and that all statements made that these statements were made with the knowledge able by fine or imprisonment, or both, under Section
Direct telephone of Direct facsimiles of Thereby declare the continuous false statements and belief at that willful false statements 1001 of Title 18 of the United application or any patent is	s: calls to: Mary Lou Wakimura to: Mary Lou Wakimura that all statements made herein of a re believed to be true; and further and the like so made are punishated States Code and that such will sued thereon.	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 my own knowledge are true and that all statements made that these statements were made with the knowledge able by fine or imprisonment, or both, under Section
Direct telephone of Direct facsimiles of the United Statements 1001 of Title 18 of the United Statement on any patent is Full name of sole	s: calls to: Mary Lou Wakimura to: Mary Lou Wakimura that all statements made herein of a re believed to be true; and further and the like so made are punishated States Code and that such will sued thereon.	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 my own knowledge are true and that all statements made that these statements were made with the knowledge able by fine or imprisonment, or both, under Section
Direct telephone of Direct facsimiles of I hereby declare the continuous and belief at that willful false statements 1001 of Title 18 of the Unitapplication or any patent is Full name of sole or first inventor	s: calls to: Mary Lou Wakimura to: Mary Lou Wakimura that all statements made herein of a re believed to be true; and further and the like so made are punishated States Code and that such will sued thereon.	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 my own knowledge are true and that all statements made rethat these statements were made with the knowledge able by fine or imprisonment, or both, under Section lful false statements may jeopardize the validity of the
Direct telephone of Direct facsimiles of Direct facsimiles of the United Statements of Title 18	Lexington, MA 02421- s: calls to: Mary Lou Wakimura to: Mary Lou Wakimura that all statements made herein of the believed to be true; and further and the like so made are punishated States Code and that such will study thereon. Steven Treiber	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 my own knowledge are true and that all statements made rethat these statements were made with the knowledge able by fine or imprisonment, or both, under Section lful false statements may jeopardize the validity of the
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Full name of second jo	int	
inventor, if any	Ashuraj Sirohi	
Inventor's Signature		Date
Residence	31 Royal Crest Drive #12	· · · · · · · · · · · · · · · · · · ·
	North Andover, Massachusetts 01845	
Citizenship	India	
Post Office Address	same as above	
Full name of third joint		
inventor, if any	Subhash Ghorpade	
Inventor's Signature		Date
Residence	2502 Westerland Drive, Apt. 460	
···-	Houston, Texas 77063	
Citizenship	India	· · · · · · · · · · · · · · · · · · ·
Post Office Address	same as above	· · · · · · · · · · · · · · · · · · ·
Full name of fourth join	nt	
inventor, if any	Simon Lingard	
Inventor's Signature		Date
Residence	15 Barrett Road	
	Lexington, Massachusetts 02421	· · · · ·
Citizenship	United Kingdom	
Post Office Address	same as above	
Full name of fifth joint		
inventor, if any	Sundaram Ramanathan	
nventor's Signature		Date
Residence	20 Cl D	
	Lexington, Massachusetts 02421	
Citizenship		
_		

Chau-Chyun Chen		
	Date	
3 Blossom Street		
Lexington, Massachusetts 02421		
USA		
same as above		
	Lexington, Massachusetts 02421 USA	Chau-Chyun Chen Date 3 Blossom Street Lexington, Massachusetts 02421 USA

STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

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I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

COMPUTER METHOD AND APPARATUS FOR DETERMINING STATE OF PHYSICAL PROPERTIES IN A CHEMICAL PROCESS the specification of which (check one) is attached hereto. [] was filed on October 4, 2000 as United States Application [x] Number or PCT International Application No. 09/678,724 and was amended on _____ (if applicable). I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is known by me to be material to patentability as defined in 37 C.F.R. §1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed: Priority Certified Prior Foreign Application(s) Not Copy Filed? Claimed YES NO (Day/Month/Year filed) (Number) (Country) (Day/Month/Year filed) (Number) (Country) [] (Day/Month/Year filed) (Number) (Country) I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below. 60/157,783 (Application Number) (Filing Date) (Filing Date) (Application Number)

(Application Serial No.))	(Filing date)	(Status: patented, pending, abandoned)
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	th & Ŕeyn		and/or agents associated with ive, Lexington, Massachusetts 02421-4799
and			
to prosecute this applica	ation and to	transact all business in the	Patent and Trademark Office connected therewith.
Please send corresp			
•			
[X] Customer No.			SMITH & REYNOLDS, P.C.
		Two Militia Drive Lexington, MA 02421-4	1799
or		B	
[] Address as foll	ows:		•
Direct telephor	ne calls to:	Mary Lou Wakimura	Telephone No.: 781-861-6240
Direct facsimil	es to:	Mary Lou Wakimura	Facsimile No.: 781-861-9540
on information and believed that willful false statement	ef are belie ents and the United Stat	eved to be true; and further to be like so made are punishables Code and that such willf	y own knowledge are true and that all statements made that these statements were made with the knowledge le by fine or imprisonment, or both, under Section ul false statements may jeopardize the validity of the
Full name of sole			
or first inventor	Steven	Treiber	
Inventor's Signature			Date
Residence	17 Ava	Road, Toronto	
	Ontario	M5P 1X8, Canada	
Citizenship	Canada	·	
Post Office Address	same as	above	

Full name of second joint								
inventor, if any								
Inventor's Signature	_ 4 , 2 "				Dat	<u> </u>	1/2	2 /4-0
	0	a	M	c Ca	~ 1 B	<u> </u>	· / ~	
	31 Royal Crest Drive #12					7 1		803
	North Andover, Massachusetts 01845		N LI	<u> </u>	IVI,	14 (7)		003
Citizenship								
	same as above							
Full name of third joint								
inventor, if any	Subhash Ghorpade							
Inventor's Signature					_ Dat	e		
Residence	2502 Westerland Drive, Apt. 460							
	Houston, Texas 77063							
Citizenship	India							
Post Office Address	same as above			<u></u>				
Full name of fourth joint								
inventor, if any	Simon Lingard							
Inventor's Signature					Dat	.e		
_	15 Barrett Road							
	Lexington, Massachusetts 02421							
	United Kingdom							
Post Office Address	same as above							
Full name of fifth joint								
inventor, if any	Sundaram Ramanathan							
Inventor's Signature				******	Dat	.e		
Residence	29 Sherburne Road							
	Lexington, Massachusetts 02421							
Citizenship		-	_					
Post Office Address	same as above	 						

Full name of sixth joint	·		
inventor, if any	Chau-Chyun Chen		
Inventor's Signature		Date	
Residence	3 Blossom Street		
<u> </u>	Lexington, Massachusetts 02421	-	
Citizenship	USA	,	
Post Office Address	same as above		



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	<u>Pr.</u>	ior Foreign Application(s)	N	Priority Not Claimed		Cert Copy YES		? O		
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As a named inv Hamilton, Brook, Smith Customer No. 2100	h & Reyno	reby appoint the attorneys arolds, P.C., Two Militia Dri	nd/or agents associated with ve, Lexington, Massachusetts 02421-4799
and			
to prosecute this applica	tion and to	transact all business in the l	Patent and Trademark Office connected therewith.
Please send correspo			
•	ondence to		
[X] Customer No.		21005 HAMILTON, BROOK, S Two Militia Drive	SMITH & REYNOLDS, P.C.
		Lexington, MA 02421-47	799
or			
[] Address as follo	ows:		
[] Address as follo	ows:		
		Mary Lou Wakimura	Telephone No.: 781-861-6240
Direct telephon	e calls to:	-	
Direct telephon	e calls to:	Mary Lou Wakimura Mary Lou Wakimura	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540
Direct telephon Direct facsimile I hereby declare on information and belie that willful false stateme	e calls to:es to:ee that all stef are believents and the Jnited State	Mary Lou Wakimura atements made herein of my wed to be true; and further the like so made are punishable es Code and that such willfu	
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Direct telephon Direct facsimile I hereby declare on information and belie that willful false stateme 1001 of Title 18 of the Uapplication or any patent	e calls to: es to: e that all st ef are believ nts and the Jnited State t issued the	Mary Lou Wakimura atements made herein of my yed to be true; and further the like so made are punishable es Code and that such willfue	Facsimile No.: 781-861-9540 own knowledge are true and that all statements made at these statements were made with the knowledge by fine or imprisonment, or both, under Section
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Full name of second joint		
-	Ashuraj Sirohi	
-		
	31 Royal Crest Drive #12	
	North Andover, Massachusetts 01845	
Citizenship	India	nat
Post Office Address	same as above	A 100 A
Full name of third joint		
inventor, if any	Subhash Ghorpade	
Inventor's Signature		Date 12 13 2000
	2502 Westerland Drive, Apt. 460	
	Houston, Texas 77063	
Citizenship		
Post Office Address	same as above	* ***
Full name of fourth joint		
inventor, if any	Simon Lingard	
Inventor's Signature		Date
Residence	15 Barrett Road	
	Lexington, Massachusetts 02421	
Citizenship	United Kingdom	
Post Office Address	same as above	
Full name of fifth joint		
inventor, if any	Sundaram Ramanathan	
Residence	29 Sherburne Road	
	Lexington, Massachusetts 02421	
Citizenship		
Post Office Address	same as above	<u> </u>

Full name of sixth joint			
inventor, if any	Chau-Chyun Chen		
Inventor's Signature	······································	Date	
Residence	3 Blossom Street		
	Lexington, Massachusetts 02421		
Citizenship	USA		
Post Office Address	same as above		

Declaration for Patent Application

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	I hereby state that I the claims, as ame					e-ider	tified :	spec	ificat	ion,	
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for patent country o any foreig	I hereby claim fore: t or inventor's certifuther than the United gn application for p re that of the applic	ficate or 365(a d States of Am atent or invent) of any P nerica, list tor's certif	CT international ed below and hat icate, or of any	l application wh we also identifie	ich de d bel	esignat ow, by	ed at	t leas cking	t one the b	ox,
			Prior Fo	reign Application	on(s)	Priority Not Claimed		Cert Copy YES			
(Number))	(Country)	<u>.</u>	(Day/Month/Ye	ear filed)	[]	[]	[]
(Number))	(Country)		(Day/Month/Ye	ear filed)	[]	[]	[]
(Number))	(Country)		(Day/Month/Ye	ear filed)	[]	[]	[]
I hereby o	claim the benefit un	ider 35 U.S.C.	§119(e) o	of any United St	ates provisional	appli	cation((s) lis	sted b	elow	
60/157,78				10/5/99							
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As a named in Hamilton, Brook, Smi Customer No. 210	th & Reyn	reby appoint the attorneys olds, P.C., Two Militia D	and/or agents associated with rive, Lexington, Massachusetts 02421-4799
and			······································
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Please send corresp			
[X] Customer No.			, SMITH & REYNOLDS, P.C.
		Two Militia Drive Lexington, MA 02421-	4799
or		g-v,	
[] Address as fol	lows:		
Direct telepho	ne calls to:	Mary Lou Wakimura	Telephone No.: 781-861-6240
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Full name of sole			
or first inventor	Steven '	Treiber	
Inventor's Signature			Date
Residence	17 <u>Ava</u>	Road, Toronto	
	Ontario	M5P 1X8, Canada	
Citizenship	Canada		
Post Office Address	same_as	above	

Full name of second join	t	
inventor, if any	Ashuraj Sirohi	<u></u>
Inventor's Signature		Date
Residence	31 Royal Crest Drive #12	
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Post Office Address	same as above	
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inventor, if any	Subhash Ghorpade	
Inventor's Signature		Date
Residence	2502 Westerland Drive, Apt. 460	
	Houston, Texas 77063	
Citizenship	India	
Post Office Address	same as above	
Full name of fourth joint	^	
inventor, if any		12/2/
Inventor's Signature		Date $\frac{12/3/2000}{}$
Residence	15 Barrett Road	
	Lexington, Massachusetts 02421	
Citizenship	United Kingdom	
Post Office Address	same as above	
Full name of fifth joint		
inventor, if any	Sundaram Ramanathan	
Inventor's Signature		Date
Residence	29 Sherburne Road	
	Lexington, Massachusetts 02421	<u>-</u>
Citizenship		
Post Office Address	same as above	·

Full name of sixth joint		
inventor, if any	Chau-Chyun Chen Kan Chull	
Inventor's Signature	llecre	Date Dec 4. 2000
Residence	3 Blossom Street	
	Lexington, Massachusetts 02421	
Citizenship	USA	
Post Office Address	same as above	

THE UNITED STATES PATENT AND TRADEMARK OFFICE

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for patent or invecountry other than any foreign applic	ntor's certificate or 365(a) of a n the United States of America	s under 35 U.S.C. 119(a)-(d) or 30 any PCT international application a, listed below and have also identificate, or of any PCT internationity is claimed:	which d tified bel	esignat low, by	ed at	l leas cking	t one the b	ox,	
	<u>Pri</u>	or Foreign Application(s)	N	Priority Not Claimed		Certin Copy I YES			
(Number)	(Country)	(Day/Month/Year filed)	[]]	[]	
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(Number)	(Country)	(Day/Month/Year filed)	[]	[)	[]	
I hereby claim the	e benefit under 35 U.S.C. §11	9(e) of any United States provisio	nal appl	ication	(s) li:	sted b	elow	·.	
60/157,783 (Application Num	nber)	10/5/99 (Filing Date)				_			
(Application Num	nber)	(Filing Date)							

(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
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(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
As a named in Hamilton, Brook, Smi Customer No. 210	th & Reyn	reby appoint the attorneys a olds, P.C., Two Militia Dri	nd/or agents associated with ve, Lexington, Massachusetts 02421-4799
and			,
to prosecute this application			Patent and Trademark Office connected therewith.
Please send corres	ondence to	o:	
[X] Customer No.		21005 HAMILTON, BROOK, S Two Militia Drive	SMITH & REYNOLDS, P.C.
			700
or		Lexington, MA 02421-4	799
or [] Address as fol	lows:		799
[] Address as fol			Telephone No.: 781-861-6240
[] Address as fol	ne calls to:	Lexington, MA 02421-4	
[] Address as fol Direct telepho Direct facsimi I hereby decla on information and beli that willful false statem	ne calls to: les to: re that all st ef are belie ents and the United Stat	Mary Lou Wakimura Mary Lou Wakimura Mary Lou Wakimura tatements made herein of mywed to be true; and further the like so made are punishables Code and that such willfur	Telephone No.: 781-861-6240
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Citizenship	India		
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Inventor's Signature	. Marravathe	Date _	11/27/00
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Post Office Address			

Full name of sixth joint			
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